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Docket No. 440402000400

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Katrin Kauffmann

Katrin Kauffmann

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Jason F. HUNZINGER

Serial No.: 10/010,536

Filing Date: December 5, 2001

For: MINIMUM INTERFERENCE MULTIPLE-ACCESS METHOD AND SYSTEM FOR CONNECTION RESCUE

Examiner: not yet assigned

Group Art Unit: 2681

**SUBMISSION OF FORMAL DRAWINGS**

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Enclosed are thirteen (13) sheets of formal drawings in connection with the above-identified application.

Respectfully submitted,

Dated: April 19, 2002

By: _____
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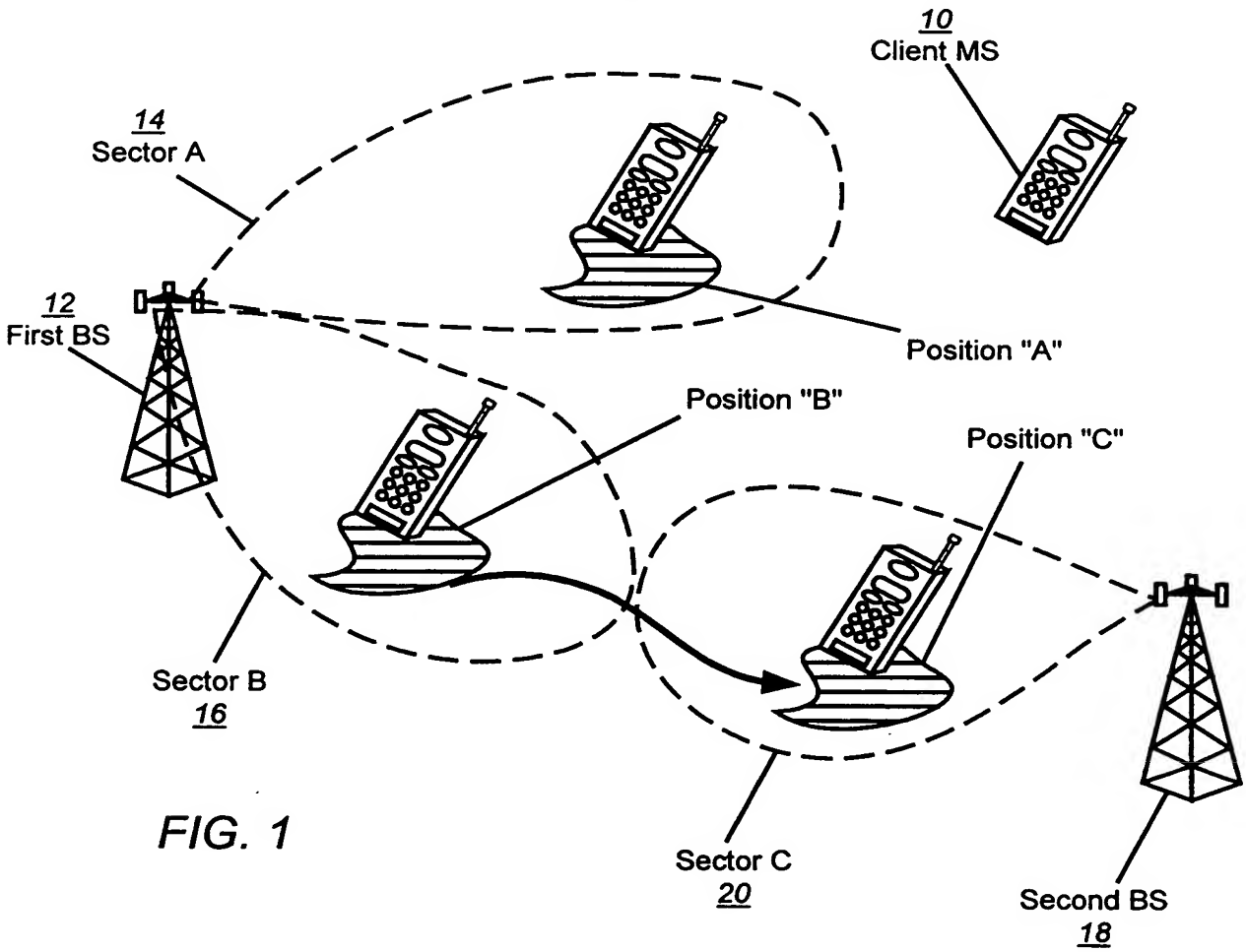
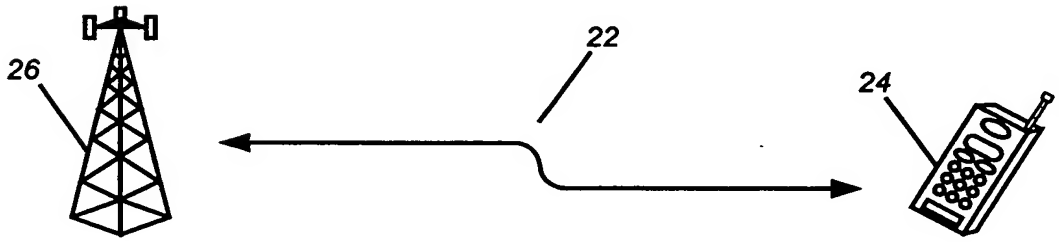



FIG. 1




Forward Link
- Pilot Channel(s)
- Sync Channel
- Paging Channel(s)
- Traffic Channels

Reverse Link
- Control Channel(s)
- Access Channel
- Traffic Channel(s)

FIG. 2

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS



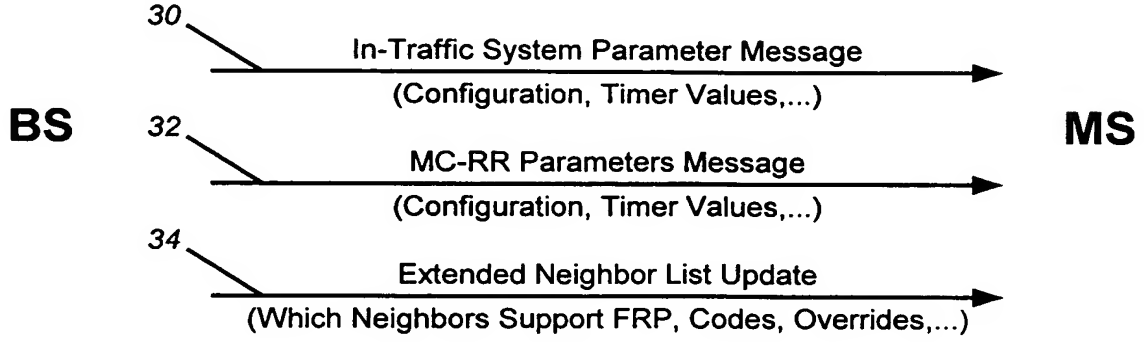



FIG. 3

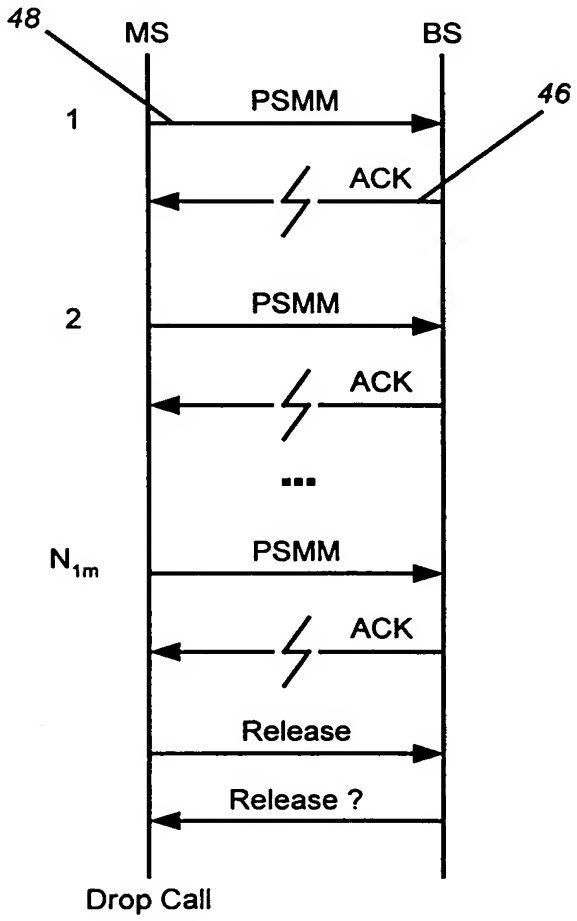



FIG. 5

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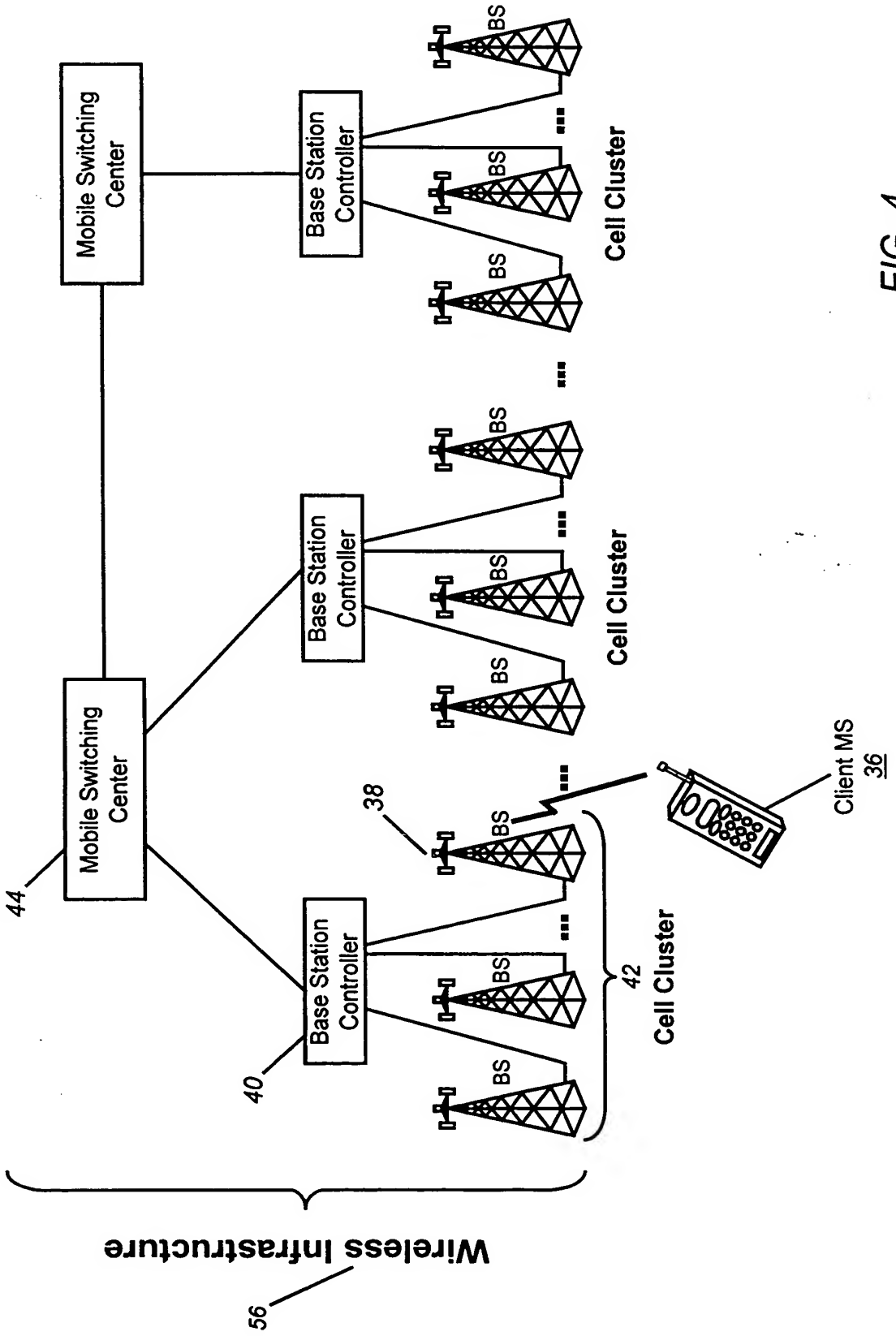


FIG. 4

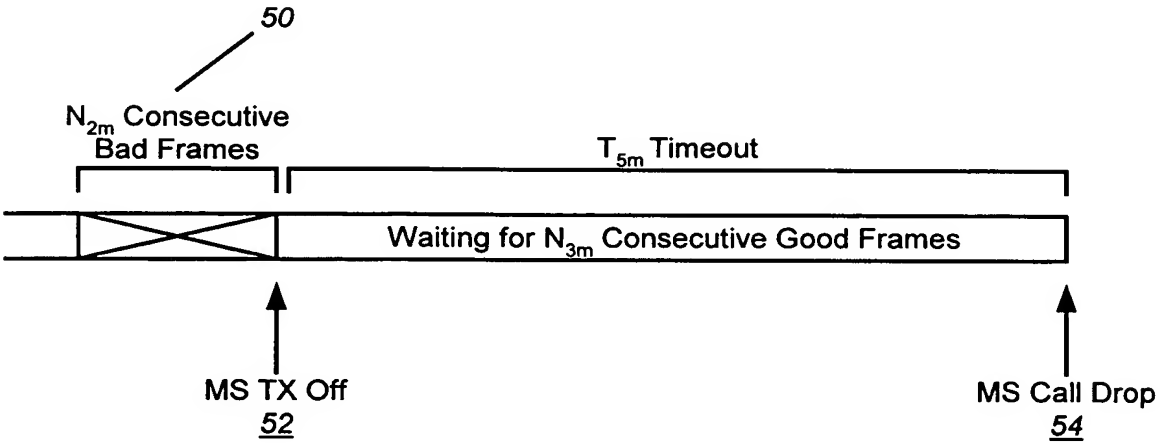
50
$N_{2m}$ Consecutive Bad Frames
$T_{5m}$ Timeout
Waiting for $N_{3m}$ Consecutive Good Frames
MS TX Off
52
MS Call Drop
54

FIG. 6

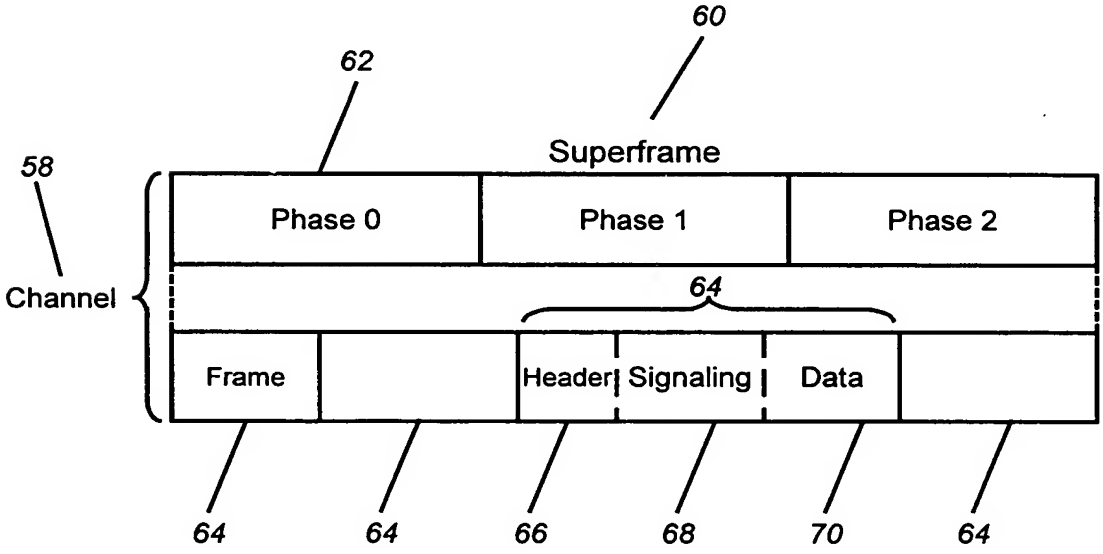
60
62
Superframe
58
Channel
Phase 0
Phase 1
Phase 2
64
Frame
Header
Signaling
Data
64
64
66
68
70
64

FIG. 7

APPROVED | O.G. FIG.
BY | CLASS | SUBCLASS
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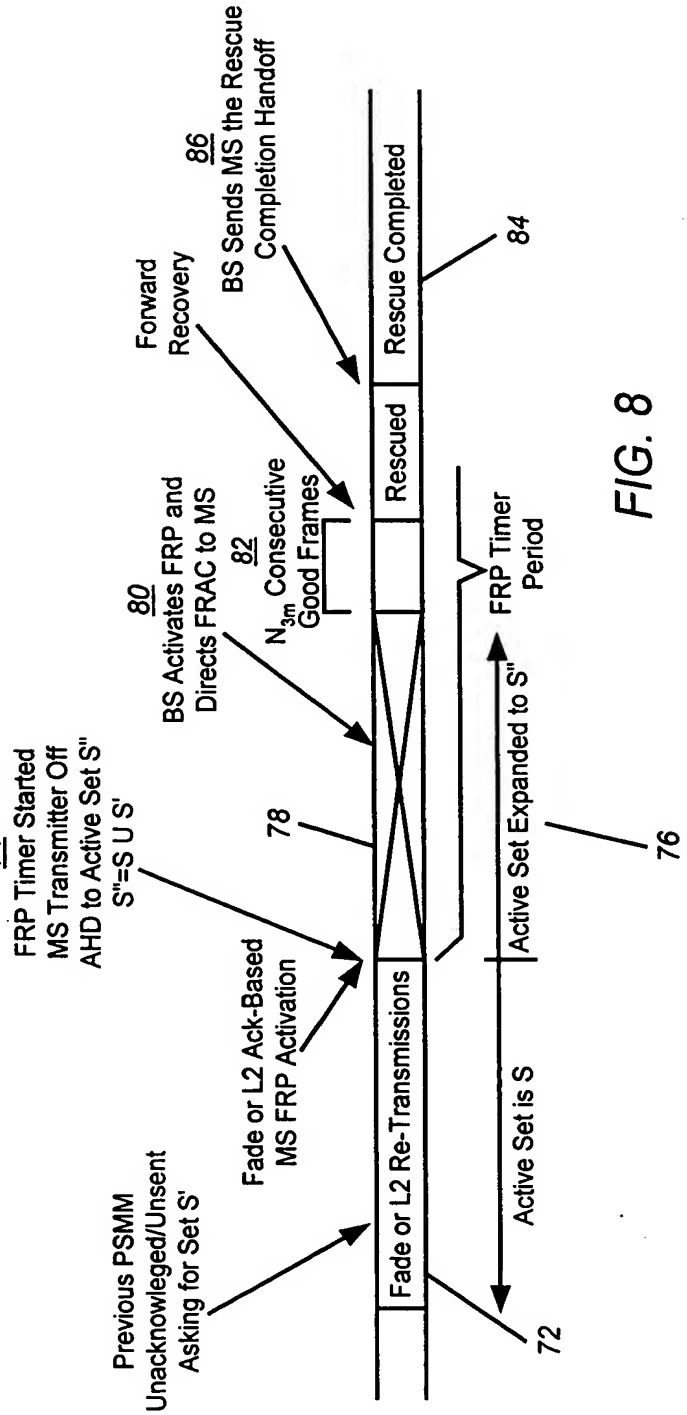


FIG. 8

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS



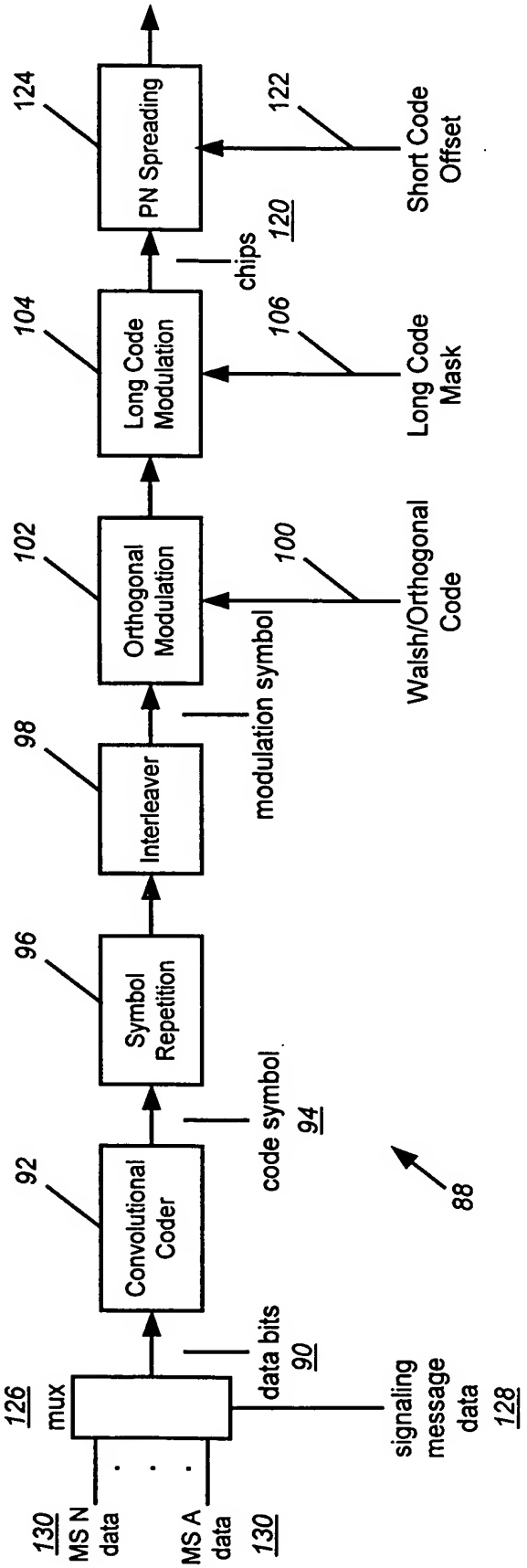


FIG. 9

APPROVED | O.G. FIG.
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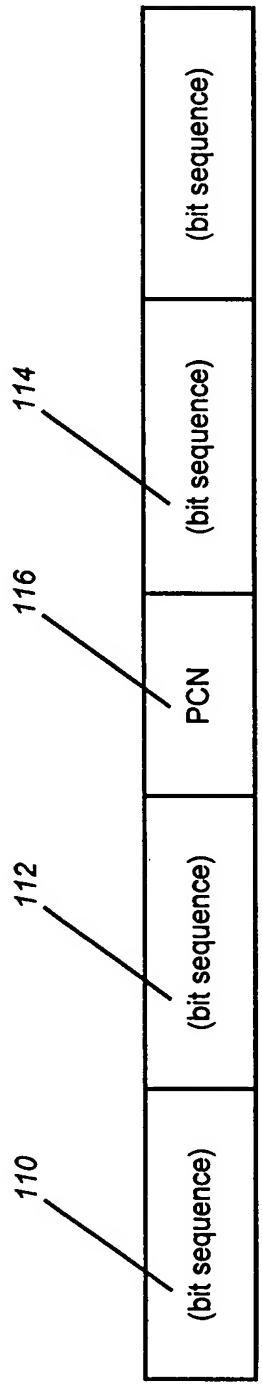


FIG. 10

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS



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| Field | Length (bits) |
|---|---|
| *SIZE OF MOBILE ADDRESS* | *3* |
| *MOBILE COUNTRY CODE (MCC)* | *10* |
| *IMSI 11_12 (2 digit# based on IMSI)* | *7* |
| *IMSI_S (10 digit# based on IMSI)* | *34* |
| USE_TIME | 1 |
| ACTION_TIME | 0 or 6 |
| SEQUENCE NUMBER | 0 or X |
| SEARCH PARAMETERS INCLUDED | 1 |
| SEARCH PARAMETERS | 0 or X |
| EXTRA PARAMETERS INCLUDED | 1 |
| EXTRA PARAMETERS | 0 or X |
| FRAME_OFFSET | 0 or 4 |
| PRIVATE_LCM | 0 or 1 |
| RESET_L2 | 0 or 1 |
| SERV_NEG_TYPE | 0 or 1 |
| POWER LEVELS | 0 or X |
| BAND_CLASS | 0 or 5 |
| CDMA_FREQ | 0 or 11 |
| RETURN_IF_HANDOFF_FAIL | 0 or 1 |
| NUM_PILOTS | 3 |

FIG. 11

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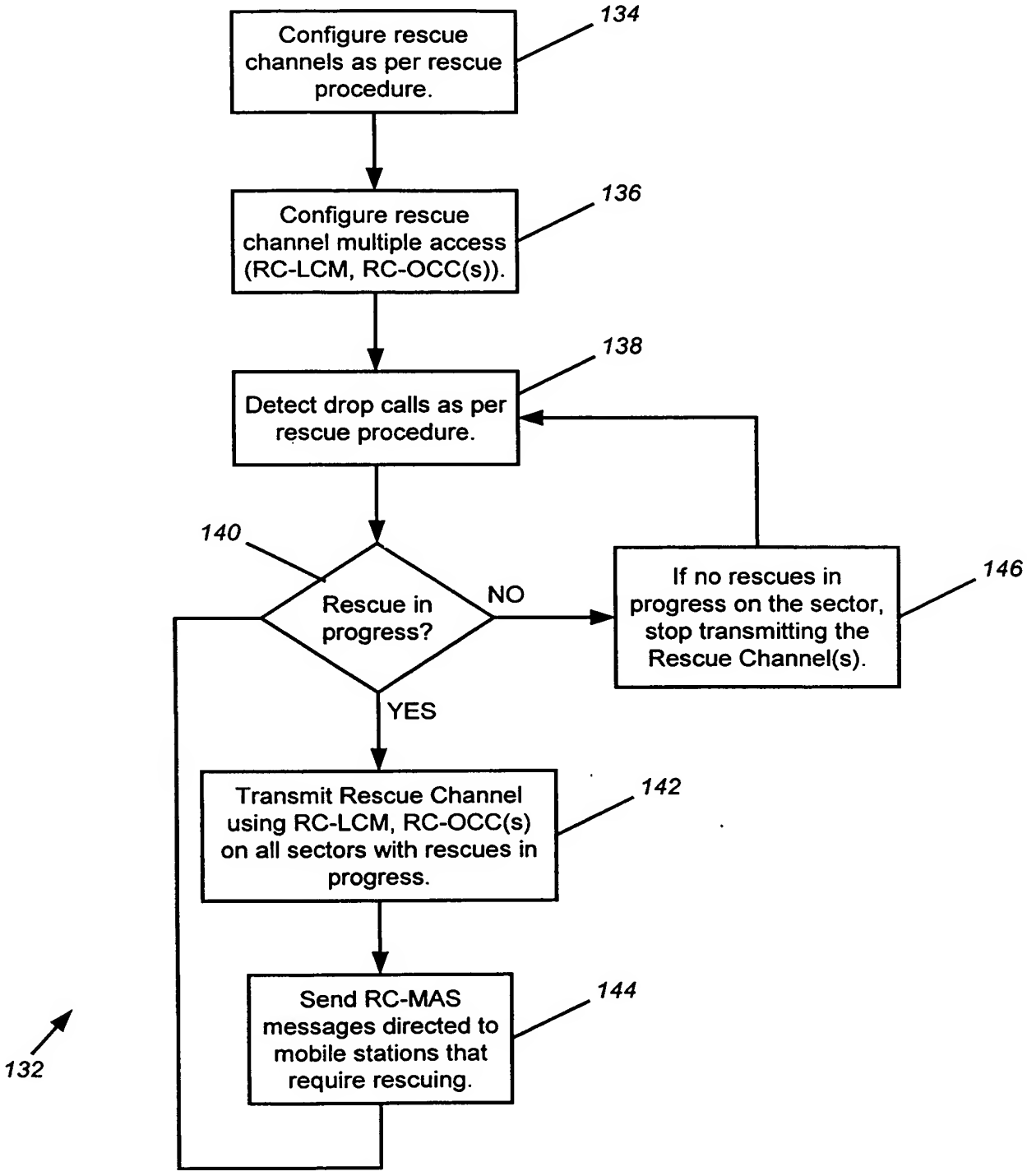
Configure rescue channels as per rescue procedure.
134
Configure rescue channel multiple access (RC-LCM, RC-OCC(s)).
136
Detect drop calls as per rescue procedure.
138
140
Rescue in progress?
NO
If no rescues in progress on the sector, stop transmitting the Rescue Channel(s).
146
YES
Transmit Rescue Channel using RC-LCM, RC-OCC(s) on all sectors with rescues in progress.
142
Send RC-MAS messages directed to mobile stations that require rescuing.
144
132

FIG. 12

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS



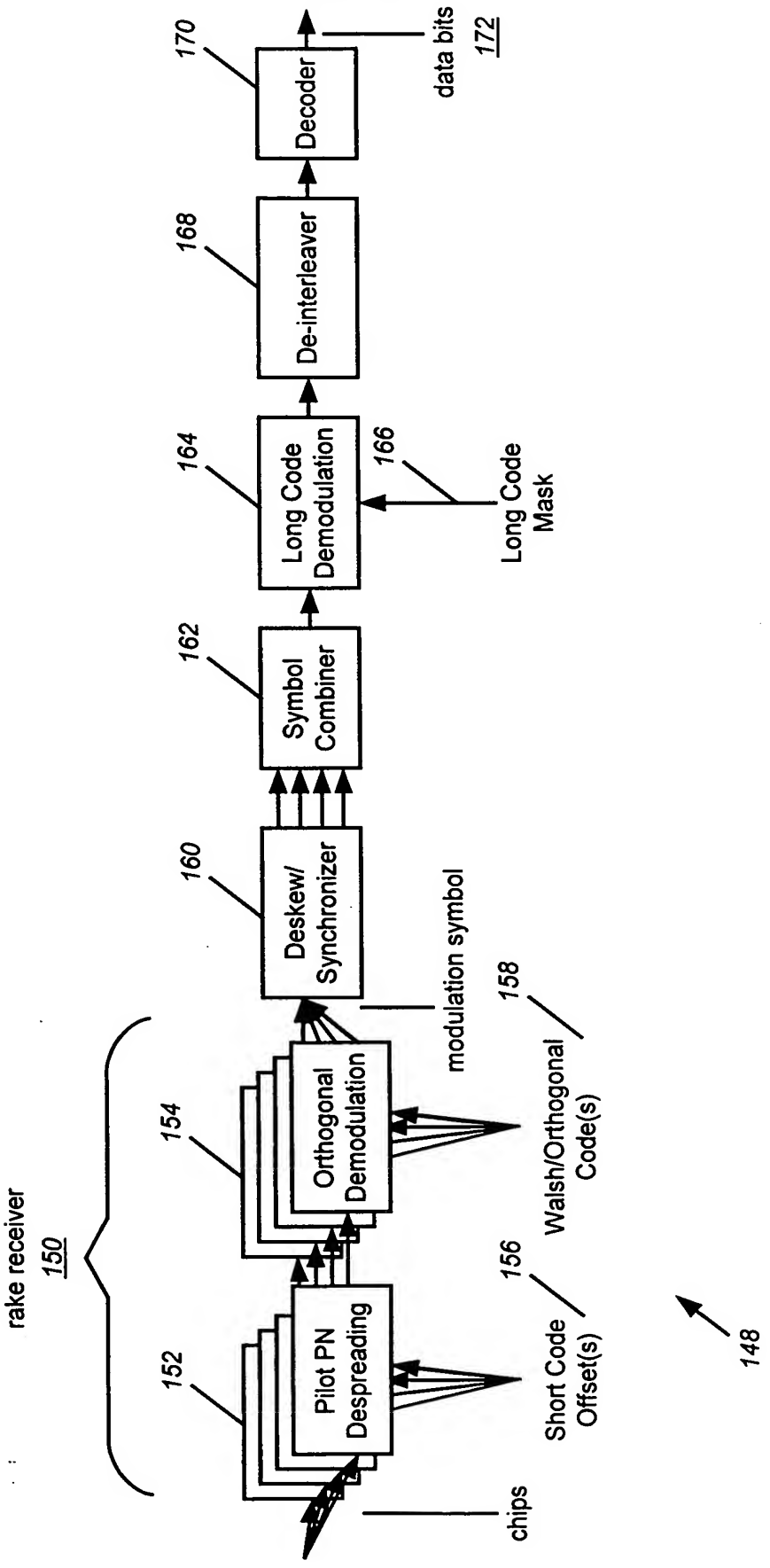


FIG. 13

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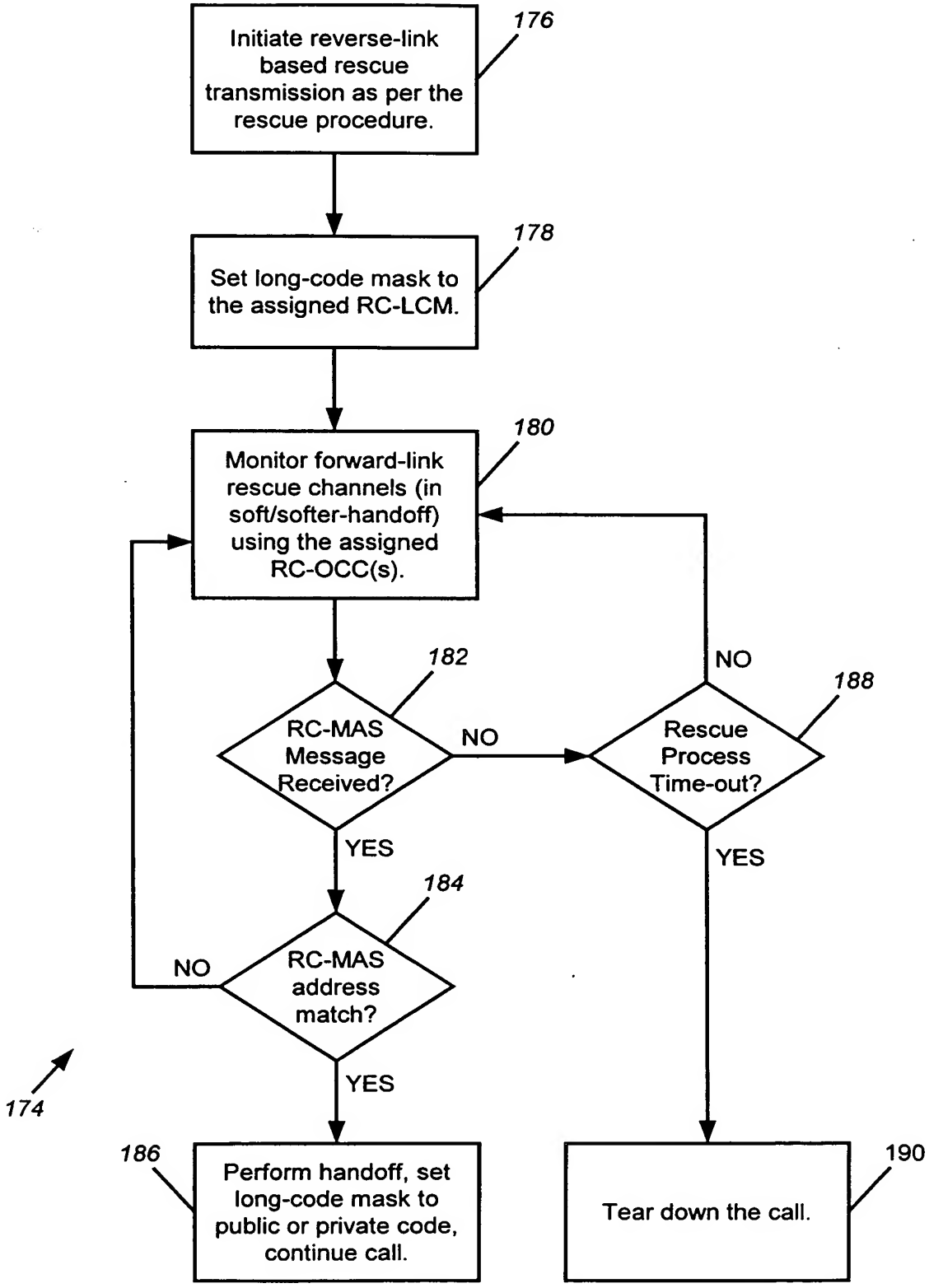
Initiate reverse-link based rescue transmission as per the rescue procedure.
176
Set long-code mask to the assigned RC-LCM.
178
Monitor forward-link rescue channels (in soft/softer-handoff) using the assigned RC-OCC(s).
180
RC-MAS Message Received?
182
NO
YES
Rescue Process Time-out?
188
NO
YES
RC-MAS address match?
184
NO
YES
174
Perform handoff, set long-code mask to public or private code, continue call.
186
Tear down the call.
190

FIG. 14

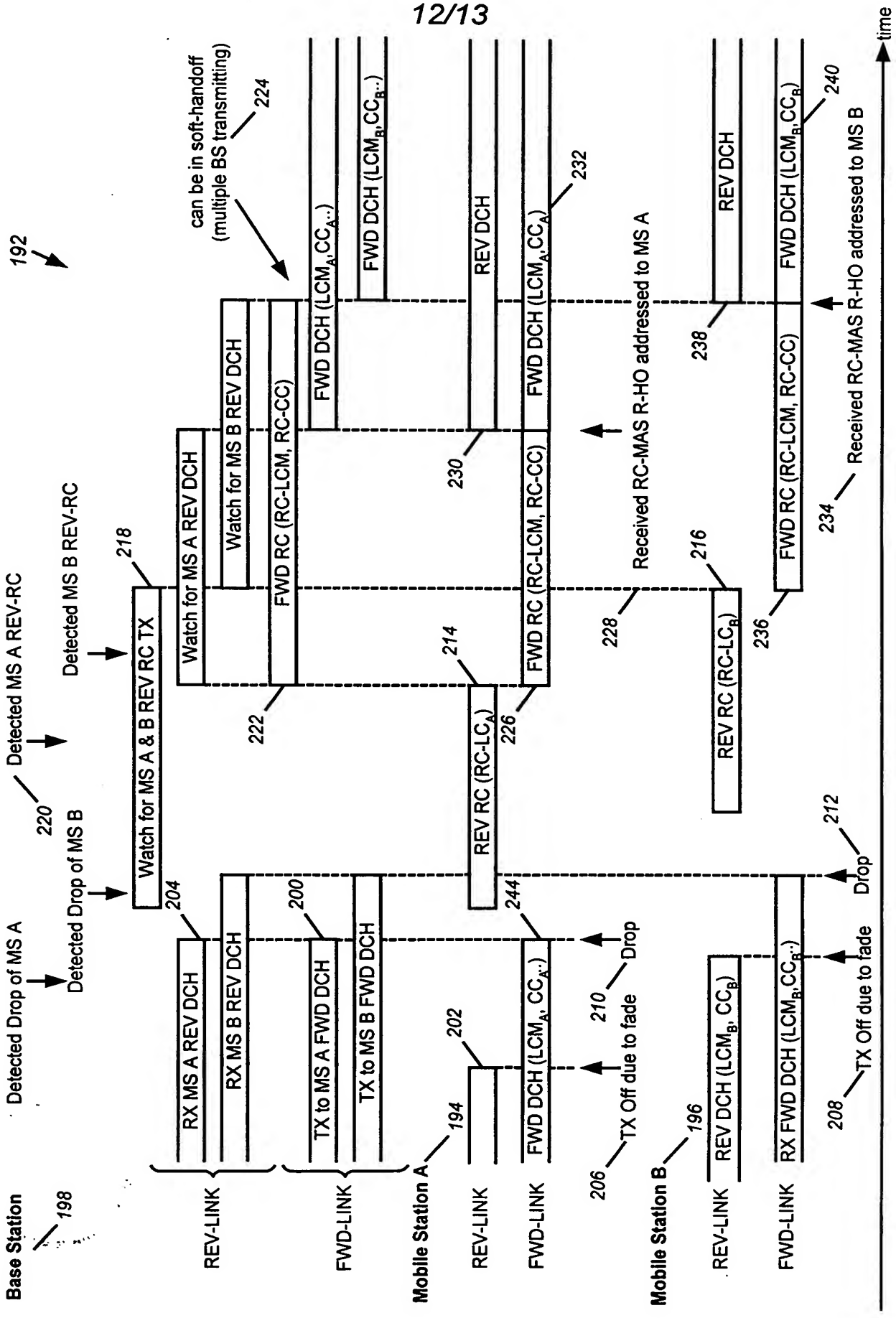
192
Base Station
198
Mobile Station A
194
Mobile Station B
196
REV-LINK
FWD-LINK
REV-LINK
FWD-LINK
REV-LINK
FWD-LINK
RX MS A REV DCH
RX MS B REV DCH
TX to MS A FWD DCH
TX to MS B FWD DCH
REV DCH (LCM_B, CC_B)
RX FWD DCH (LCM_B,CC_R..)
FWD DCH (LCM_A, CC_A..)
REV RC (RC-LC_A)
REV RC (RC-LC_B)
Watch for MS A & B REV RC TX
Watch for MS A REV DCH
Watch for MS B REV DCH
FWD RC (RC-LCM, RC-CC)
FWD DCH (LCM_A,CC_A..)
FWD DCH (LCM_B,CC_B..)
REV DCH
FWD DCH (LCM_A,CC_A)
FWD RC (RC-LCM, RC-CC)
REV DCH
FWD DCH (LCM_B,CC_B)
FWD RC (RC-LCM, RC-CC)
Detected Drop of MS A
Detected Drop of MS B
Detected MS A REV-RC
Detected MS B REV-RC
Drop
TX Off due to fade
Drop
TX Off due to fade
can be in soft-handoff (multiple BS transmitting)
Received RC-MAS R-HO addressed to MS A
Received RC-MAS R-HO addressed to MS B
time
202
204
200
244
210
206
212
208
218
220
214
222
226
230
228
216
232
238
236
240
234

FIG. 15

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

Title: Maximum Interference Multiple-Access Method And System For Connection Rescue
Inventor(s): Jason F. Hunzinger
Application No.: 10/010,536
Docket No.: 440402000400





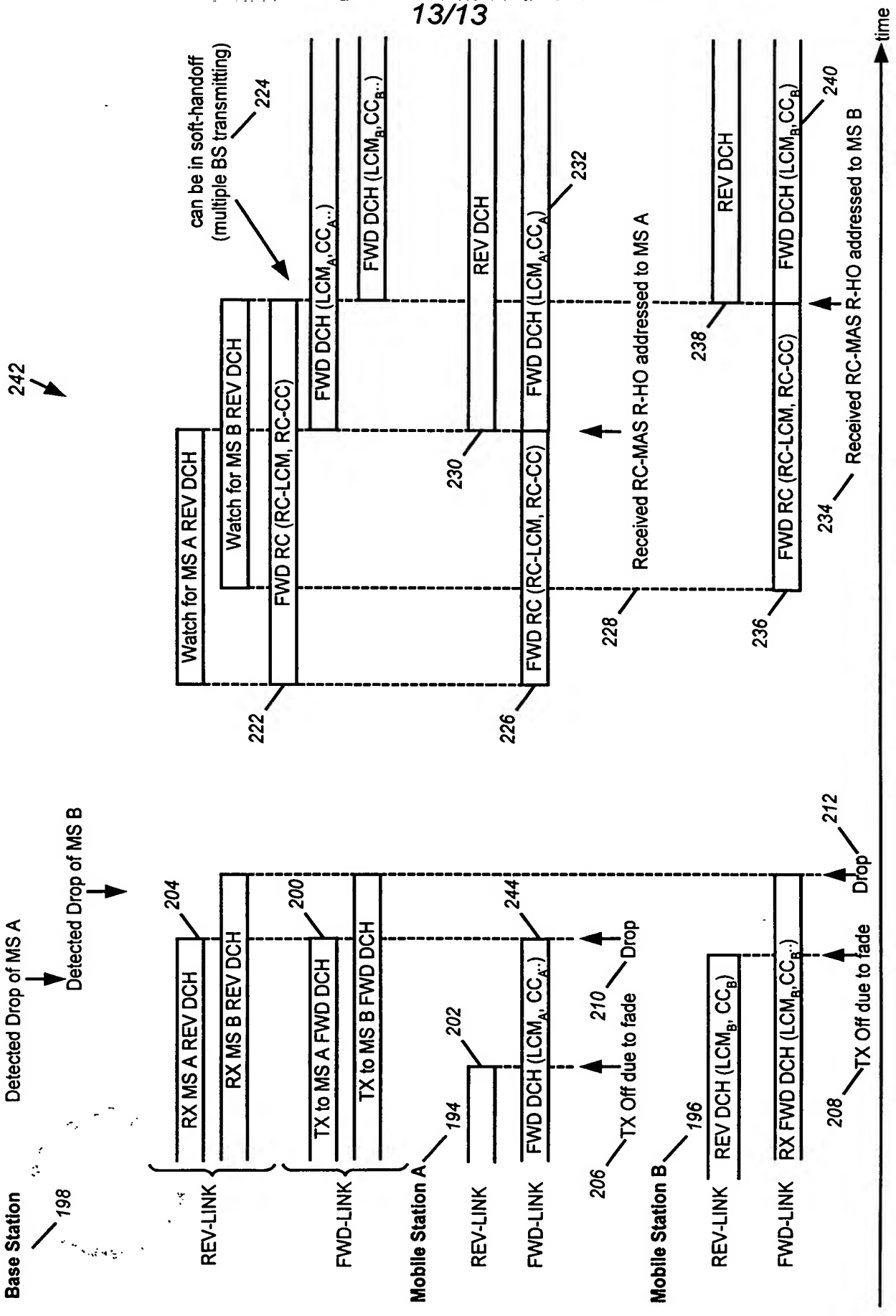


FIG. 16

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